



06-27-00

644-2756



Attorney's Docket No. RA19-99-062/4269-74

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Dholakia, et al.

Art Group Unit: 2756

Serial No.: 09/430,697

Filed: October 29, 1999

For: SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR GENERATING  
DIGITAL IMPAIRMENT LEARNING SIGNAL HAVING LOW ENERGY CONTENT AT  
DIRECT CURRENT AND NYQUIST FREQUENCIES

June 23, 2000

Director for Patents and Trademarks  
Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT  
CITATION UNDER 37 C.F.R. § 1.97**

Sir:

Attached is a list of documents on form PTO-1449 together with a copy of each identified document. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP.

Applicants note that Items 179 and 180 of the concurrently filed PTO-1449 form were identified as particularly related to the present application. The other items listed in the PTO-1449 form were identified in other modem cases filed by the assignee of the present application. Finally, Applicants note that various standards related to modems are provided at items 171, 182, 183, 172, and 184.

Respectfully submitted,

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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as Priority Mail addressed to: Director for Patents and Trademarks, Washington, DC 20231, on June 23, 2000.

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Date of Signature: June 23, 2000

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|---|--|--------------------------|
| <b>FORM PTO-1449</b> U.S. Department of Commerce<br>Patent and Trademark Office<br><br><b>LIST OF DOCUMENTS CITED BY APPLICANT</b><br><br>(Use several sheets if necessary) | Attorney Docket Number<br>RA9-99-062/4269-74 | Serial No.<br>09/430,697 |
|   | Applicant: Dholakia, et al.                  |                          |
|   | Filing Date :<br>October 29, 1999            | Group<br>2756            |

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|                  | 4  | 5,801,695       | 9/1/98   | Townshend        | 375   | 340      |                            |
|                  | 5  | 5,793,809       | 8/11/98  | Holmquist        | 375   | 242      |                            |
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|                  | 28 | 5,067,125       | 11/19/91 | Tsuchida         | 370   | 79       |                            |
|                  | 29 | 5,052,000       | 9/24/91  | Wang et al.      | 371   | 43       |                            |
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| 50 | 4,112,427 | 9/5/78   | Hofer et al.        | 340 | 347   |
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| 52 | 3,683,120 | 8/8/72   | Schenkel            | 179 | 15A   |
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| 54 | 5,918,204 | 6/29/99  | Tsurumaru           | 704 | 214   |
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| 78 | 5,734,663 | 3/31/98  | Eggenberger         | 371 | 39.1  |
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| 96  | 5,402,445 | 3/28/95  | Matsuura         | 375 | 229   |
| 97  | 5,398,303 | 3/14/95  | Tanaka           | 395 | 51    |
| 98  | 5,386,438 | 1/31/95  | England          | 375 | 121   |
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| 137 | 5,784,377 | 7/21/98  | Baydar et al.    | 370 | 463   |  |
| 138 | 5,887,027 | 3/23/99  | Cohen et al.     | 375 | 222   |  |
| 139 | 5,850,388 | 12/15/98 | Anderson et al.  | 370 | 252   |  |
| 140 | 5,914,982 | 6/22/99  | Bjarnason et al. | 375 | 222   |  |
| 141 | 5,726,765 | 3/10/98  | Yoshida et al.   | 358 | 412   |  |
| 142 | 5,850,421 | 12/15/98 | Misra et al.     | 375 | 354   |  |
| 143 | 5,729,226 | 3/17/98  | Betts et al.     | 341 | 94    |  |
| 144 | 5,862,184 | 1/19/99  | Goldstein et al. | 375 | 295   |  |
| 145 | 5,911,115 | 6/8/99   | Nair et al.      | 455 | 63    |  |
| 146 | 5,838,724 | 11/17/98 | Cole et al.      | 375 | 222   |  |
| 147 | 5,784,415 | 7/21/98  | Chevillat et al. | 375 | 341   |  |
| 148 | 5,844,940 | 12/1/98  | Goodson et al.   | 375 | 222   |  |
| 149 | 5,386,438 | 1/31/95  | England          | 375 | 121   |  |
| 150 | 5,881,102 | 3/9/99   | Samson           | 375 | 222   |  |
| 151 | 5,285,474 | 2/8/94   | Chow et al.      | 375 | 13    |  |
| 152 | 5,513,216 | 4/30/96  | Gadot et al.     | 375 | 233   |  |
| 153 | 5,835,532 | 11/10/98 | Strolle et al.   | 375 | 233   |  |
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| 168 | Pahlavan et al., <i>Nonlinear Quantization and the Design of Coded and Uncoded Signal Constellations</i> , <u>IEEE Transactions on Communications</u> , Vol. 39, No. 8, pp. 1207-1215 (August 1991)   |
| 169 | Proakis, <i>Digital Signaling Over a Channel with Intersymbol Interference</i> , <u>Digital Communications</u> , pgs. 373, 381 (McGraw-Hill Book Company, 1983)   |
| 170 | Williams et al., <i>Counteracting the Quantisation Noise from PCM Codecs</i> , BT Laboratories, pp. 24-29 (UK)  |
| 171 | <i>A Digital Modem and Analogue Modem Pair for Use on the Public Switched Telephone Network (PSTN) at Data Signalling Rates of Up to 56 000 Bit/s Downstream and 33 600 Bit/s Upstream</i> , <u>ITU-T V.90</u> (September 1998)   |
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| 173 | Bell, R.A., et al., <i>Automatic Speed Reduction and Switched Network Back-up</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 32, No. 1, pp. 154-157 (June 1989)  |
| 174 | Abbate, J.C., et al., <i>Variable-Data Transmission Modem</i> , <u>IBM Technical Disclosure Bulletin</u> , Vol. 17, No. 11, pp. 3301-3302 (April 1975)  |
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